RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09 926,375

Source: PCT 09

Date Processed by STIC: 4/9/02

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2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
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Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
   U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
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Revised 01/29/2002

ERROR DETECTED   **SUGGESTED CORRECTION**   SERIAL NUMBER: 09 926,375

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1____Wrapped Nucleics
     Wrapped Aminos

The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2____Invalid Line Length

The rules require that a line not exceed 72 characters in length. This includes white spaces.

3____Misaligned Amino
     Numbering

The numbering under each 5ᵗʰ amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4____Non-ASCII

The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5____Variable Length

Sequence(s)____contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6____PatentIn 2.0
     "bug"

A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7____Skipped Sequences
     (OLD RULES)

Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8____Skipped Sequences
     (NEW RULES)

Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

9____Use of n's or Xaa's
     (NEW RULES)

Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.

10____Invalid <213>
     Response

Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

11____Use of <220>

Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of Sequence Rules)

12____PatentIn 2.0
     "bug"

Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13____Misuse of n

n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH – Biotechnology Systems Branch – 08/21/2001

PCT09

Does Not Comply
Corrected Diskette Needed

RAW SEQUENCE LISTING DATE: 04/09/2002
PATENT APPLICATION: US/09/926,375 TIME: 13:17:47

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Output Set: N:\CRF3\04092002\I926375.raw

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 6         Golovan, Serguei
 7         Phillips, John P.
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18 <140> CURRENT APPLICATION NUMBER: US 09/926,375
20 <141> CURRENT FILING DATE: 2000-04-20
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[handwritten annotation: n detected in sequence, must explain - see error summary sheet item 9 [Please check Seq. 6 + 7 as well for similar errors]]

RAW SEQUENCE LISTING   DATE: 04/09/2002
PATENT APPLICATION: US/09/926,375   TIME: 13:17:47

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365 ggtccgaggc acctggcacg tgtgaagcag acatgcagct cagtctccat gtaggtcctc   9420
367 caataagcgg tagcctgact gcagtatcca atccccaaca gggctgcata gtctggcctc   9480
369 agtgggggag gatgccccta atcctgcaga gacttgatga gtggagagct atccaggggg   9540
371 aacccaccct ctctgagaag ggaatgggga tgggggaggg actctgtgaa gagggggacaa   9600
373 ggacaaacaa gaacctcaaa taggtcaggc cctaaaggct tgctaagtag cagtggccca   9660
375 gctctgtcct gttcctcagc ccaaggctca gctcccacct gtttctgtgt ttttctggct   9720
377 tttcatgggc ctaggacttg gtgaccagtt caaacaatgg ggcctgtgga agacacaata   9780
379 tacaagacta gggacattcc tgttctgctg actatccata gcctgatgta ggtggaagga   9840
381 cccaatcact ggatttctac ccttgcacaa ccttgacagc tgagggcctc tcagaaacct   9900
383 atttcttcca ctgaaaaatg agactctcaa atgaacgtcg tgacaatcat caggcttatt   9960
385 aaagaggtgt atctaacctg aatggcaagc agacagcagg caaatgtctg tatcaacctc  10020
387 taggaaggac aagaactgct cactgctgcc ccccaggagg ccatttgctg aaacagctgc  10080
389 tctcctgctg gtgcacaggc cctgccttct cattgcagcc acagcccctt cctgtctgaa  10140
391 cctcctgtca ggtcactggg aaacagatca agatggaaca ggacagctcc tgatggtaaa  10200
393 taaaaaacag tggtcatggc tattcatagg ggtttatgct tcttcagtcc acactgtgaa  10260
395 gagctgtggg catgaaccac agtgttcgag gtagagttgg ggttctgaaa ttcacagtgg  10320
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RAW SEQUENCE LISTING   DATE: 04/09/2002
PATENT APPLICATION: US/09/926,375   TIME: 13:17:47

        Input Set : A:\SEQUENCE.txt
        Output Set: N:\CRF3\04092002\I926375.raw

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     397 ggtgagctca gtaaatgtga gctggaggtc actcgtgaga cacacagtcc tgctgcttct 10380
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     401 cctgagagtt accagtttct tatttgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg 10500
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     405 aactatcagg cgttgtcccc tcctactttt cctcggactc tggagaacaa acatgggtcc 10620
     407 ttattccagg ggagcaagtc gctgttggct gacacatctt gctcacatac attttaccta 10680
     409 gacaatggag cctccatcag agtattactt tagctcctca ccgatggcaa tgcaccacct 10740
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     413 tcagttactt tatctggtaa agttcatcag agaatgaagc cagtattaag aacatggaat 10860
     415 catttgggaa cctggatcta gcaataccc accctagatg gagttgctga gttttcacct 10920
     417 cagattataa ttccccccta gcttctatgg tttattctga aaccagggga actcgattcc 10980
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     421 tggtagtatg tggctcacag agacacacta cagtcatggc caatgtcaag gtaggacaga 11100
     423 tgtgaatcat tcccccagtc ctgctgtttt catgactaac cctcctcagc acagtgacca 11160
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     429 ttgagtcagt gaaagagtga ggaatgtcat tattggcccc tcacagaggc tggctcactc 11340
W--> 431 cagcagaggt ggttgaagct cttggacacg ggtcaggtgc ataggaaagg tngtctggga 11400
     433 cactgagaac cacaattgaa caaacagaac tgttggcttt tttttttta aatgagttct 11460
     435 caaaaaatga ctggctagct taggcaaata cttcgagcca acccaacaga acattcttcc 11520
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     491 tgacgcgatc ctcagcaggg caggagggtc aattgctgac tttaccgggc atcggcaaac 13200
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VERIFICATION SUMMARY   DATE: 04/09/2002
PATENT APPLICATION: US/09/926,375   TIME: 13:17:48

Input Set : A:\SEQUENCE.txt
Output Set: N:\CRF3\04092002\I926375.raw

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L:431  M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1
L:431  M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1
L:431  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1510 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:6
L:1510 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:6
L:1510 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:2078 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:7
L:2078 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:7
L:2078 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
```